

CONTENTS

Dedication	v
Foreword	vi
Preface	vii
Chapter Authors	viii
Chapter Referees	xi

EXPERIMENTAL DESIGN AND TREATMENT OF DATA

1 Research and Experimental Design	1
2 Analysis of Data	24
3 Microcomputer Applications in Wildlife Management and Research	75

FIELD AND LABORATORY TECHNIQUES

4 Guidelines for Proper Care and Use of Wildlife in Field Research	96
5 Capturing and Handling Wild Animals	106
6 Chemical Immobilization of Large Mammals	125
7 Wildlife Marking Techniques	140
8 Criteria of Sex and Age	169
9 Estimating the Number of Animals in Wildlife Populations	215
10 Measuring Vertebrate Use of Terrestrial Habitats and Foods	254
11 Physiological Methods in Wildlife Research	275
12 Techniques for Wildlife Nutritional Analyses	307
13 Evaluation of Causes of Wildlife Mortality	324
14 Sampling Invertebrates in Aquatic and Terrestrial Habitats	349
15 Wildlife Radiotelemetry	370

POPULATION ANALYSIS AND MANAGEMENT

16 Population Analysis	419
17 Harvest Management	445
18 Identification and Control of Wildlife Damage	474
19 Management of Urban Wildlife	507
20 Restoration and Management of Endangered Species	531

HABITAT ANALYSIS AND MANAGEMENT

21	Geographic Information Systems	540
22	Vegetation Sampling and Measurement	567
23	Habitat Evaluation Methods	592
24	Ecological Impact Assessment	607
25	Managing Wetlands for Wildlife	623
26	Managing Farmlands for Wildlife	648
27	Managing Rangelands for Wildlife	663
28	Managing Forestlands for Wildlife	689
	Appendices	722
	Index	731